

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012354

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C25B9/20 C25B15/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/32900 A (ZILVOLD HENDRIK MARTIN ;ZILVOLD TIELEMAN HYDROTECHNIEK (NL)) 30 July 1998 (1998-07-30) page 7, line 8 - page 8, line 20; figure 1	32,33, 35-37
Y		38-41
A		2-23
Y	EP 0 995 818 A (HYDROGEN SYSTEMS NV) 26 April 2000 (2000-04-26) the whole document	38-41
A		2-23
X	US 4 605 482 A (UCHIBORI TAKAHIRO ET AL) 12 August 1986 (1986-08-12) column 6, line 44 - column 8, line 33; figures 2,3	32,33
A		2,3
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 May 2005

Date of mailing of the international search report

27.07.05

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CH 107 000 A (SCOTT,JOHN PRESSLY) 1 October 1924 (1924-10-01) page 1, left-hand column; figure 2 page 1, right-hand column, line 20 - page 4, left-hand column, line 13 page 6, right-hand column, line 34 - page 7, right-hand column, line 15 -----	1,16-18, 21-23
A	US 4 274 939 A (BJAEAREKLINT AKE B) 23 June 1981 (1981-06-23) claims 1,6; figures 1A,1C,7 -----	32-37
A	GB 1 547 581 A (BASF WYANDOTTE CORP) 20 June 1979 (1979-06-20) page 2, lines 34-117; claims 1,2; figures 1,2 -----	1,32-34

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-23, 32-41

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23,32-41

Claims 1-23 and 32-41 are directed towards frames for an electrolyser module, electrolyser modules and electrolyzers comprising said frames, the frames being characterized by comprising at least one electrolyser opening and at least one degassing opening defined in the frame. According to claims 1-23 at least one additional gas opening is defined in said frame to facilitate removal of the gas from the degassing chamber and according to claim 34 two additional gas openings are further comprised in the frame.

2. claims: 24-31

Claims 24-31 are directed towards an electrolyser module and electrolyzers comprising said module, the module being characterized by frames forming an electrolyser chamber and a degassing chamber, the degassing chamber having a rounded shape.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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